

PrismaPro M

Quadrupole Mass Spectrometers

PFEIFFER 
VACUUM+FAB SOLUTIONS

Part of the **BUSCH** GROUP



Flexible

Suitable for a variety of applications in industrial and analytical environments, modular design

User-friendly

Easy transferring of measured data thanks to new generation of Pfeiffer MassSpec software

Sensitive

Lowest detectable partial pressure $3 \cdot 10^{-15}$ hPa (mbar)

Accessories, spare parts and options

- Spare electronics
- Spare ion source
- Spare filament
- Spare analyzer
- Vacuum gauge and vacuum chamber
- Inlet valve
- Communication interface and test equipment
- Mass ranges
- Filament material
- Straight or right-angled connection
- Standard or extended I/Os

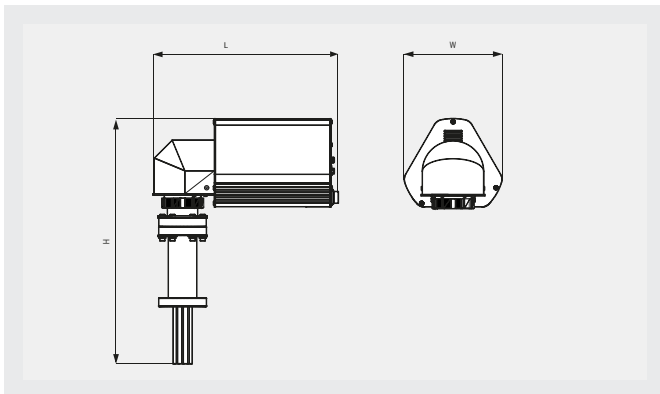
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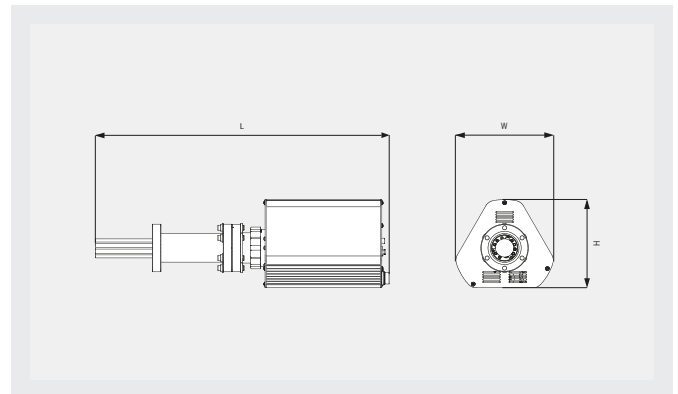
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Dimensional drawing



Dimensional drawing



	QMG 250 M1	QMG 250 M2	QMG 250 M3
Mass range	1 - 100 u	1 - 200 u	1 - 300 u
Detection limit (Faraday/C-SEM)	$4 \cdot 10^{-13} / 3 \cdot 10^{-15}$ hPa (mbar)	$5 \cdot 10^{-13} / 4 \cdot 10^{-15}$ hPa (mbar)	$7 \cdot 10^{-13} / 5 \cdot 10^{-15}$ hPa (mbar)
Ar sensitivity (Faraday)	$5 \cdot 10^{-4}$ A/hPa (mbar)	$4 \cdot 10^{-4}$ A/hPa (mbar)	$3 \cdot 10^{-4}$ A/hPa (mbar)
Max. operating pressure (Faraday/C-SEM)	$5 \cdot 10^{-4} / 5 \cdot 10^{-5}$ hPa (mbar)	$5 \cdot 10^{-4} / 5 \cdot 10^{-5}$ hPa (mbar)	$5 \cdot 10^{-4} / 5 \cdot 10^{-5}$ hPa (mbar)
Operating temperature analyzer	200 °C (max. 150 °C when operating with SEM)	200 °C (max. 150 °C when operating with SEM)	200 °C (max. 150 °C when operating with SEM)
Operating temperature electronics	5 - 50 °C	5 - 50 °C	5 - 50 °C
Bake-out temperature (analyzer)	300 °C	300 °C	300 °C
Connecting flange	DN 40 CF-F	DN 40 CF-F	DN 40 CF-F
Detector	C-SEM, Faraday	C-SEM, Faraday	C-SEM, Faraday
Contribution to neighboring mass	< 10 ppm	< 20 ppm	< 50 ppm
Resolution at 10% peak height	0.5 - 2.5 u	0.5 - 2.5 u	0.5 - 2.5 u
Dwell time	1 ms - 16 s/u	1 ms - 16 s/u	1 ms - 16 s/u
Weight approx.	3.2 kg	3.2 kg	3.2 kg
Dimensions (L x W x H) straight	427.6 x 142 x 128 mm	427.6 x 142 x 128 mm	427.6 x 142 x 128 mm
Dimensions (L x W x H) 90° angle	271.4 x 142 x 356 mm	271.4 x 142 x 356 mm	271.4 x 142 x 356 mm
Supply voltage (50/60 Hz)	100 - 240 VAC	100 - 240 VAC	100 - 240 VAC

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	QMG 250 M1	QMG 250 M2	QMG 250 M3
Interface	Ethernet	Ethernet	Ethernet
Reproducibility of peak ratio	± 0.5 %	± 0.5 %	± 0.5 %

DO YOU WANT TO KNOW MORE?

Get in touch with us directly!



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